

METHOD AND APPARATUS FOR CONTROLLING OUTPUT CURRENT OF TURBINE/ALTERNATOR ON COMMON SHAFT

ABSTRACT OF THE DISCLOSURE

An electrical system and method for a turbine/alternator comprising a gas driven turbine and a permanent magnet alternator rotating on a common shaft includes an inverter circuit connectable either to an output circuit or the stator winding of the alternator. A control circuit during a start-up mode switches the inverter circuit to the stator winding of the alternator and during a power out mode switches the inverter circuit to the output circuit. During the power out mode, current data is sensed and is used for current limit and/or power balancing.